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pfc_pbpk.Parms <-
list(
  BW = 0.0267,      # body weight of non-pregnant CD-1 mouse (kg)
  Vbloodc = 1/1000/0.02/(1-0.4), # Plasma, Fraction BW from Davis & Morris, Pharmaceutical Res 10,
1093, 1993 converted to blood using Charles River CD1 Mouse female age 19-21 weeks hematocrit
  Vgutc = 13.4/500, # Fraction of body volume for GI tract for rat from Gray 1994
  Vliverc = 1.75/1000/0.02, # Fraction BW from Davis & Morris, Pharmaceutical Res 10, 1093, 1993
  Vkidneyotherc = 0.32/1000/0.02, # Assumption of Fraction BW for total kidney, Davis and Morris 1993
  Vkidneytubulec = 2*10^-2.4574, # From fit to Oliver 1968 Table IX (L)
  Akidneytubulec = 2*10^5.3703, # From fit to Oliver 1968 Table IX (mm^2)
  Vrestc = (14.5-5/3-1.75-0.32)/1000/0.02-13.4/500, # Data from Davis & Morris, Pharmaceutical Res 10,
1093, 1993
  Qcc = 8.0/1000*60/(0.02)^(3/4), # L/h/kgbw - Data from Davis & Morris, Pharmaceutical Res 10, 1093,
1993
  Qgutc = 1.5/8.0, # Fraction - Data from Davis & Morris, Pharmaceutical Res 10, 1093, 1993
  Qliverc = 0.35/8.0, # Fraction - Data from Davis & Morris, Pharmaceutical Res 10, 1093, 1993
  Qkidneyc = 1.3/8.0, # Fraction - Data from Davis & Morris, Pharmaceutical Res 10, 1093, 1993
  Qgfdc = 0.28/1000*60/(0.02)^(3/4), # L/h/kgbw - Data from Davis & Morris, Pharmaceutical Res 10,
1093, 1993
  Qrestc = 1-(1.5+0.35+1.3)/8, # Force mass balance
  Qurinec = 1.0/1000/24/(0.02)^(3/4), # L/h/kgbw - Data from Davis & Morris, Pharmaceutical Res 10,
1093, 1993
  koffplasma = 1,
  konplasma = (1 - 0.4 + 0.4*0.1*0.02)*1/1000/.02/(1-0.4)*(1-0.02)/(0.02*(0.02*0.4/(1-0.4)/0.1+1)),
  Bmaxplasmac = Inf,
  hematocrit = 0.4,
  Tmaxtubulereabsorbc = 10^-6,    # Transport maximum (mol/h/mm^2 proximal tubule); Assumed
  kTtubulereabsorb = 20,          # Transporter affinity constant ([dose]/L); Assumed
  Tmaxtubulesecretec = 0,         # Transport maximum (mol/h/mm^2 proximal tubule); Assumed
  kTtubulesecrete = 20,          # Transporter affinity constant ([dose]/L); Assumed
  kabsorb = 1,
  koffliver = 0,
  konliver = 0,
  Bmaxliverc = Inf, # binding sites per g liver; Assumed
  Kliver2plasma = 100,
  Krest2plasma = 100,
  Kkidney2plasma = 100,
  Krbc2plasma = 0.1,
  LiverGrowthConst = 0,
  LiverGrowthLinear = 0,
  LiverGrowthSatMax = 0,
  LiverGrowthSatConc = 1,
  CLbiliary = 0,
  CLmetabolism = 0,
  ivdose = 0,      # mg/kg
## Inputs from diet
## [col1] is hr, [col2] is mg/kg
DietInput = matrix(numeric(0),nrow=2,ncol=2)
)

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